

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
**William A. Hinton State Laboratory Institute**  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

Omar Gonzalez-Pagan, ADA

Suffolk County District Attorney's Office  
By e-mail

March 9, 2011

Re: Comm. v. [REDACTED] State Lab no. [REDACTED]

ADA Gonzalez-Pagan,  
Please find enclosed a discovery packet for the case noted above. The material is collated in the following manner:

- 1) the chemist's c.v.'s
- 2) the drug receipt to the Boston Police
- 3) inventory control card for the submission
- 4) the bench notes; the drug powder analysis form,
- 5) the data from the Gas Chromatography/ Mass Spectrometry (GC/MS) run

I was the custodial chemist for the submission, performing the preliminary analysis. Kate Corbett performed the confirmatory analysis by gas chromatography/mass spectrometry (gc/ms).

If you need further clarification of this material, please call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler  
Senior Chemist

Cc: Charles Salemi, Kate Corbett

## Curriculum Vitae

Michael Lawler

### Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

### Experience:

**1990-present** currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

**2005-present** lecturer in chemistry, Curry College, Milton, Ma.

**1988-1990** New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

**1983-1988** Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

**1982-1983** NENS hypothyroid assay technologist with Tuft's University

**1979-1981** Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

### Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

### Journal Publications

**Screening**, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

**Genetic Screening**, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

**The Journal of Pediatrics**, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

### Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

### Awards

Theobald Smith Education Grant for graduate studies

## Curriculum Vitae

Kate A. Corbett

### Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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### Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

**DRUG RECEIPT**

CC #

BOOK #

59

PAGE #

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DESTRUCTION #

District/Unit

A-1, AKO1D

Name &amp; Rank of Arresting Officer

Connely / Wozniak

ID#

11374 / 86206

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITY

LAB USE ONLY

GROSS  
WEIGHTANALYSIS  
NUMBER

white substance (crack cocaine)

1/PB

2.27g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

John Lopez  
ECU

ID#

9370

Received by

Date

4-7-09

ECU Control #

No. [redacted] Date Analyzed: 12/16/09  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [redacted]

Amount: Subst: SUB  
No. Cont: 1 Cont: pb

Date Rec'd: 04/07/2009  
Gross Wt.: 2.27 ✓

No. Analyzed:  
Net Weight: 0.27g  
# Tests: 9/11/09  
SAC

Prelim: Cocaine (K) Findings: Cocaine

lpbm/dmh

gross = 0.4159

net = 0.2752

Co  $\oplus$   $\xrightarrow{H^+}$   $\oplus$   
Mer  $\ominus$   
Fro  $\ominus$   
Mee  $\ominus$   
Au  $\oplus$   
TLTA  $\ominus$   $\xrightarrow{H^+}$   $\oplus$

S-605/219  
PSM/09

# DRUG POWDER ANALYSIS FORM

12-16-09

SAMPLE # [REDACTED] AGENCY Boston ANALYST MAC

No. of samples tested: [REDACTED] Evidence Wt. 2.27

## PHYSICAL DESCRIPTION:

1 pb w/ 8 sub

Gross Wt ( ): 0.4059

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.2752

OHAUS 2334 12-12-09

20g = 20.0000g

10g = 10.0002g

5g = 5.0001g

1g = 1.0000g

## PRELIMINARY TESTS

### Spot Tests

Cobalt Thiocyanate (+)

Marquis (-)

Froehde's (-)

Mecke's (-)

### Microcrystalline Tests

Gold Chloride (+)

TLTA (+)

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS \_\_\_\_\_

DATE \_\_\_\_\_

## GC/MS CONFIRMATORY TEST

RESULTS Cocaine

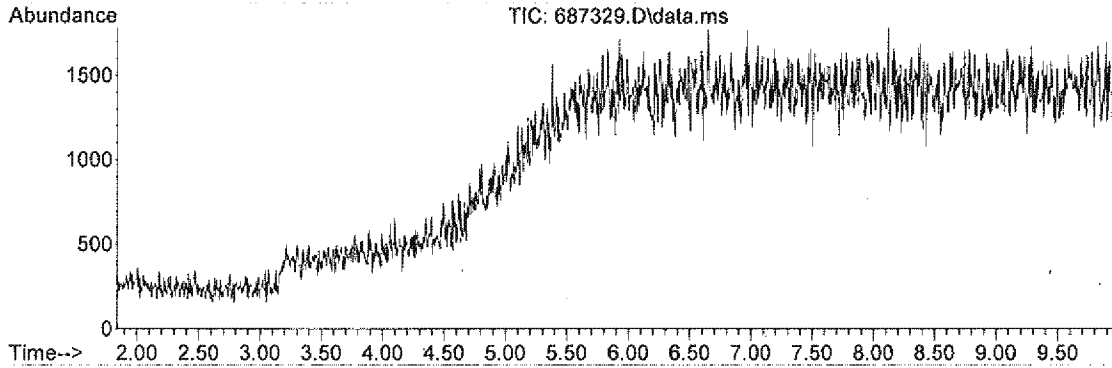
MS OPERATOR KAC

DATE 12-16-09

✓KAC  
3/9/11

## Information from Data File:

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Operator : KAC  
Date Acquired : 15 Dec 2009 15:03  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



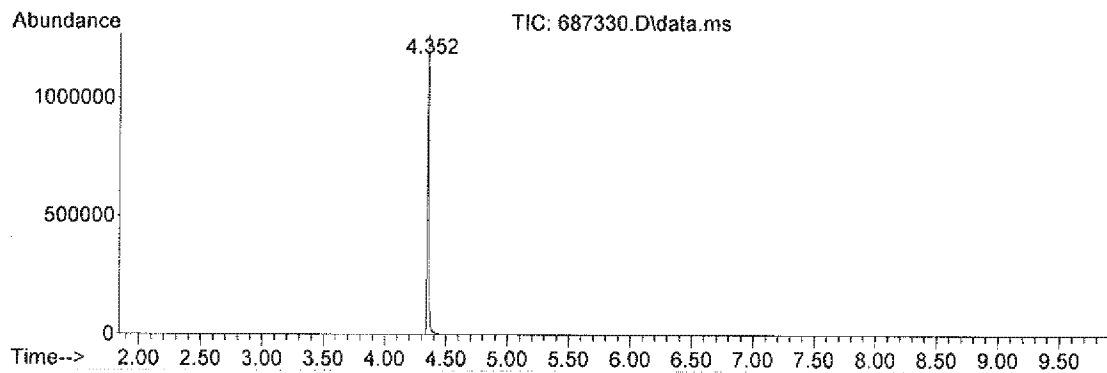
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\*\*\*NO INTEGRATED PEAKS\*\*\*



## Information from Data File:

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Operator : KAC  
Date Acquired : 15 Dec 2009 15:16  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



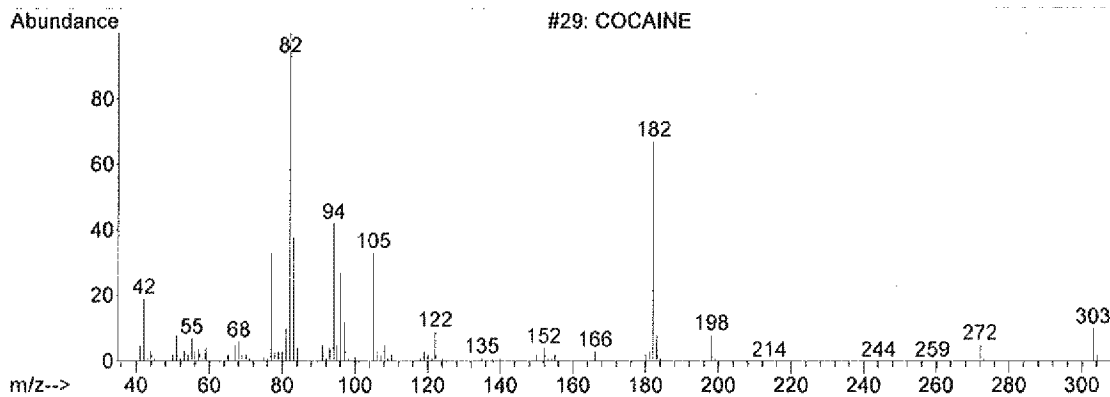
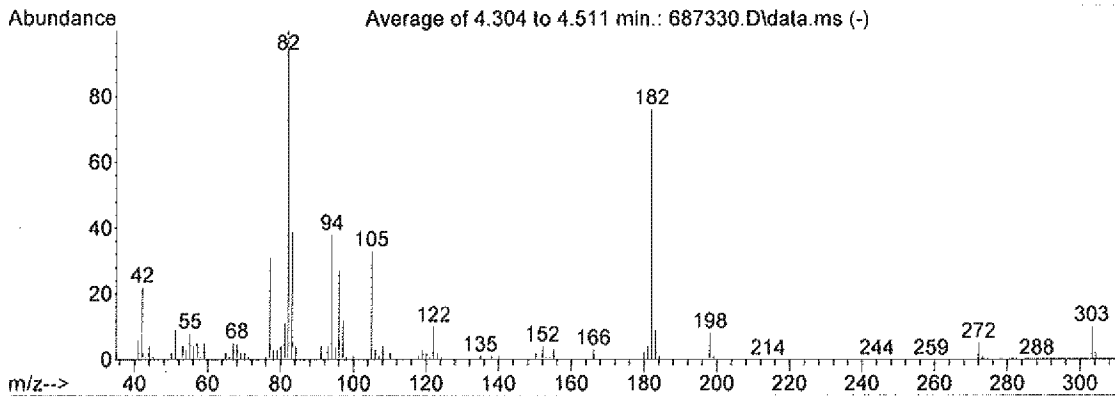
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## Information from Data File:

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Operator : KAC  
Date Acquired : 15 Dec 2009 15:16  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

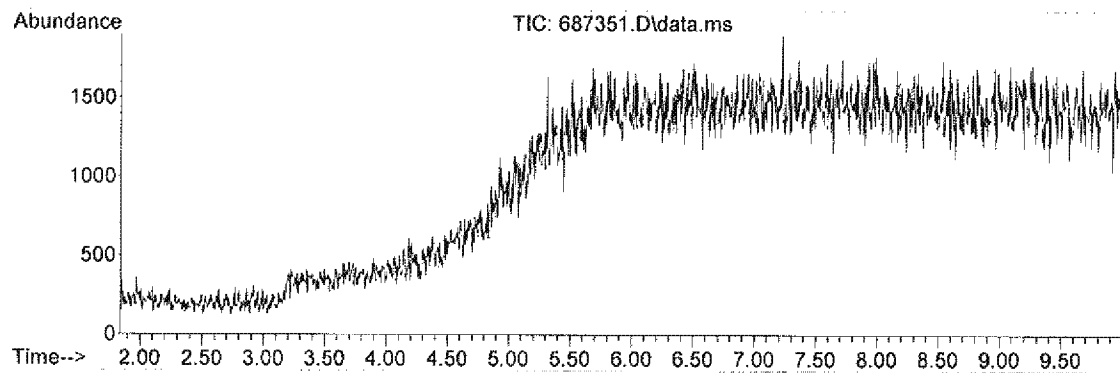
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C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.35	C:\Database\SLI.L COCAINE	000050-36-2	99



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Operator : KAC  
Date Acquired : 15 Dec 2009 19:41  
Sample Name : BLANK  
Submitted by : MGL  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

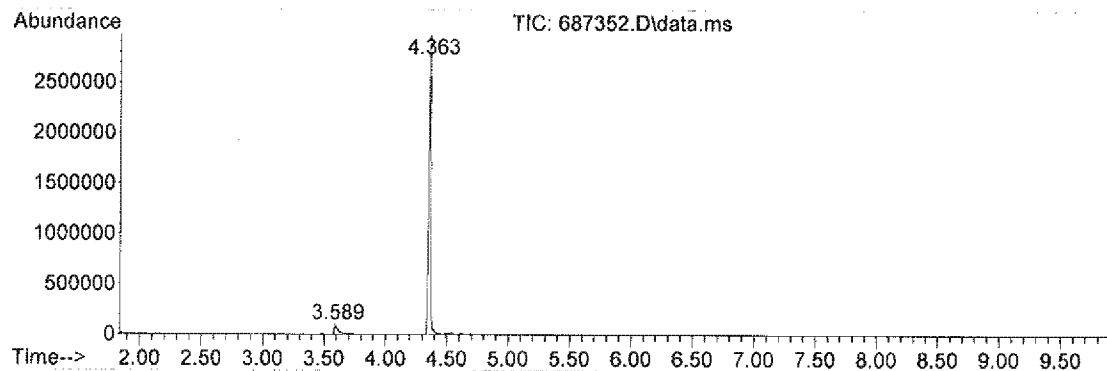


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_15\_09\687352.D  
Operator : KAC  
Date Acquired : 15 Dec 2009 19:54  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 52  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



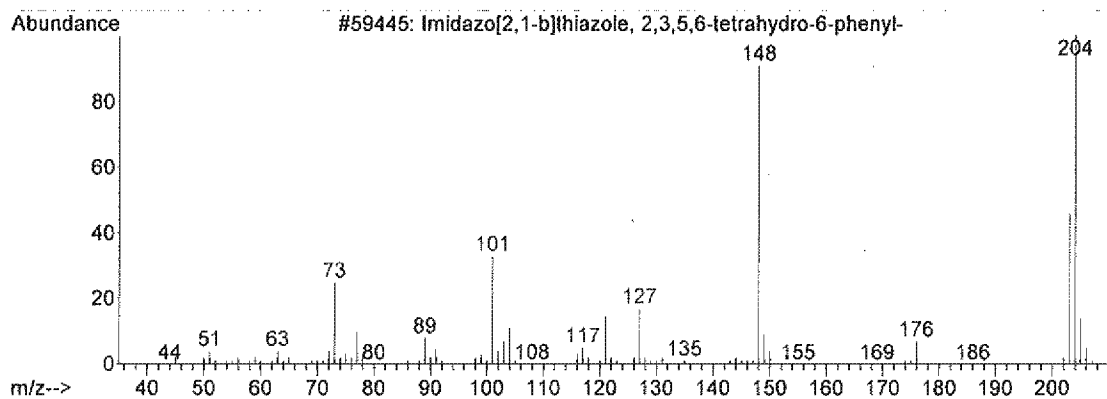
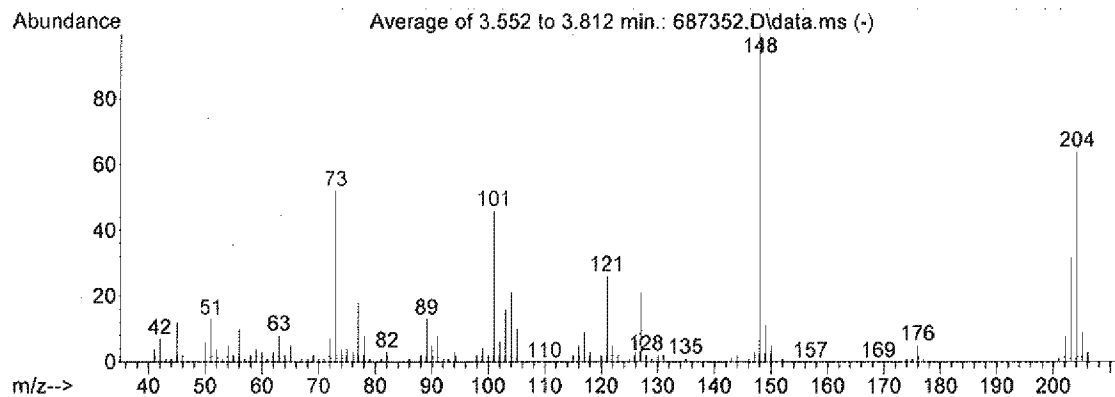
Ret. Time	Area	Area %	Ratio %
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4.363	3645754	93.91	100.00

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_15\_09\687352.D  
Operator : KAC  
Date Acquired : 15 Dec 2009 19:54  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 52  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98

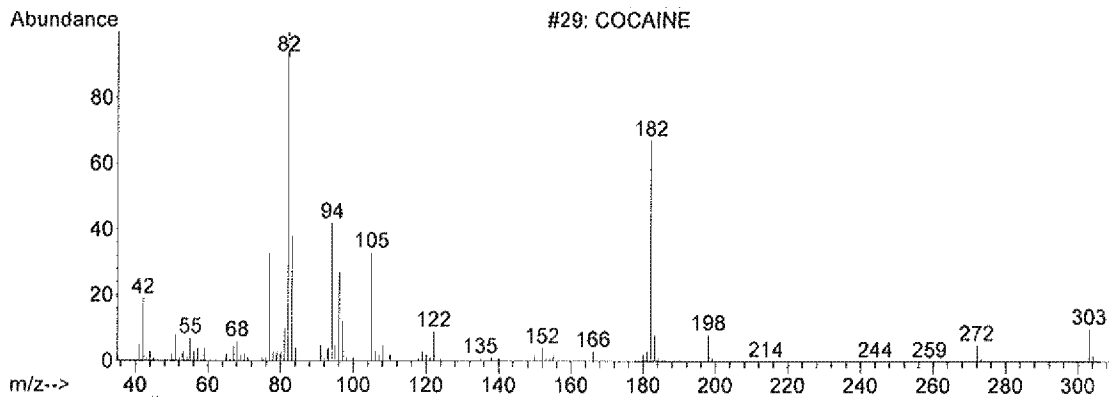
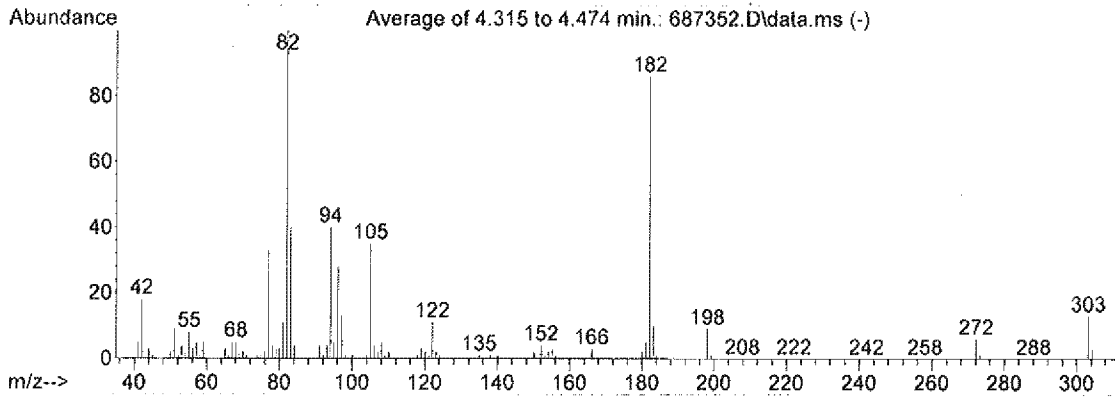


## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_15\_09\687352.D  
Operator : KAC  
Date Acquired : 15 Dec 2009 19:54  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 52  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

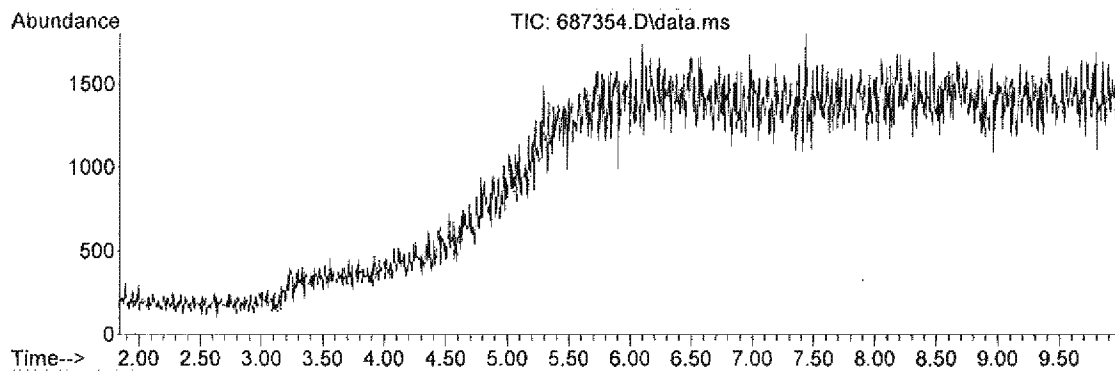
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C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.36	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_15\_09\687354.D  
Operator : KAC  
Date Acquired : 15 Dec 2009 20:19  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

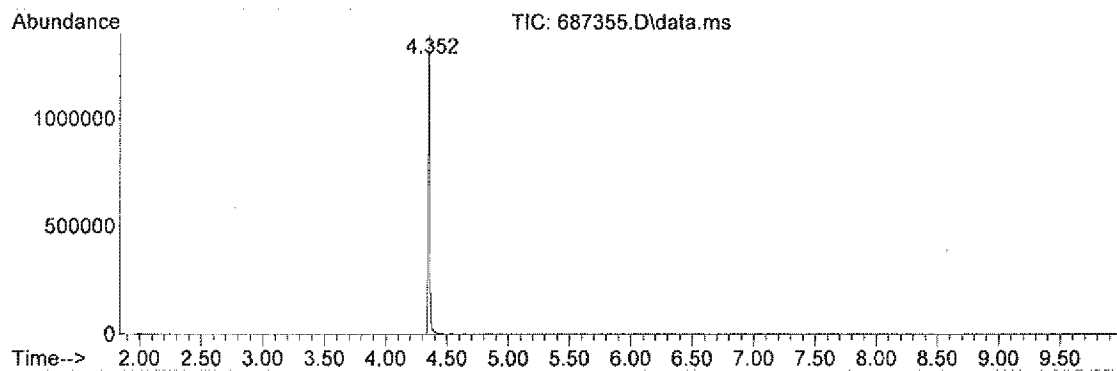


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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File Name : F:\Q4-2009\SYSTEM7\12\_15\_09\687355.D  
Operator : KAC  
Date Acquired : 15 Dec 2009 20:32  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 55  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.352	1310313	100.00	100.00

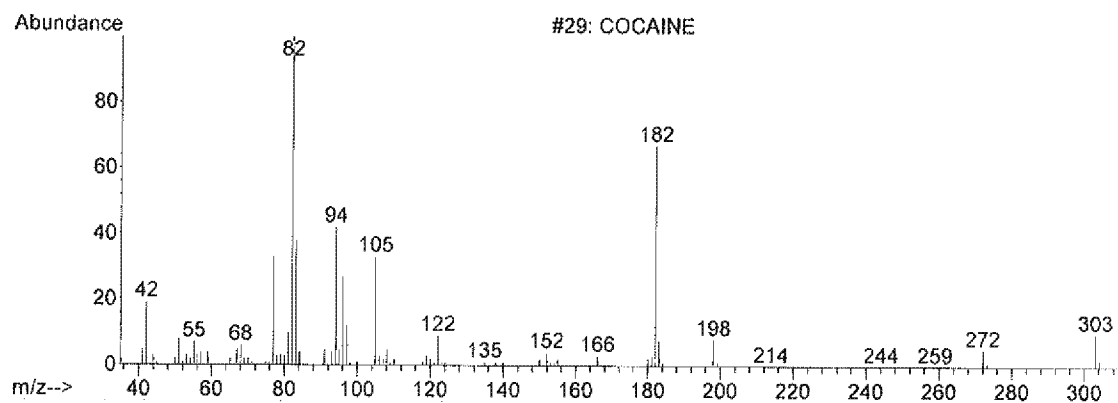
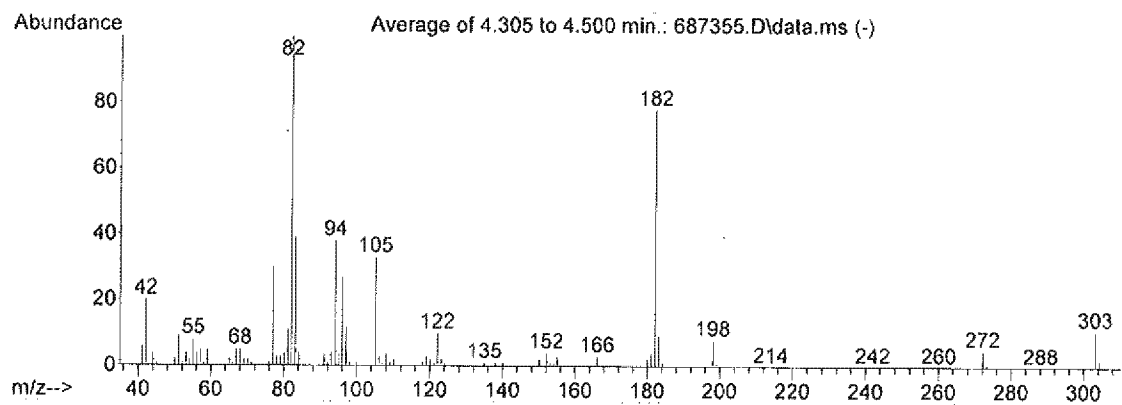


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Operator : KAC  
Date Acquired : 15 Dec 2009 20:32  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 55  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.35	C:\Database\SLI.L COCAINE	000050-36-2	99



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